

Reflection Discussion

• Good Teacher

- control the class
- values, respects you - demands respect
- sense humor
- energetic, interactive
- gets students involved
- makes sure they understand
- kids + teacher having fun
- candy, no HW, \$

Good Student

- quiet
- respectful
- pays attention to teacher
- not talking during instruction
- prepared
- Does HW, turns in on time
- focused

Book
HW
Calc.
pen.

concept: Order of operations

Sect. 4.1

- ① Parentheses
- ② Exponents
- ③ Multiplication and division
- ④ Addition and subtraction

Concept: Solving Equations

4.2

- ① write problem
- ② reverse problem
- ③ Do arithmetic

Ex $5x - 4 = 22$

$$\begin{array}{rcl}
 x & & 22 \\
 \cdot 5 & & + 4 > 26 \\
 - 4 & & \div 5 > 5.2 \\
 = 22 \uparrow & & \boxed{x = 5.2}
 \end{array}$$

Concept Distributive Property

Sect. 4.1

$$10(3+4) = 10 \cdot 3 + 10 \cdot 4 = 30 + 40 = 70$$

multiply outside by both inside numbers, keep the operation inside parentheses

$$10(3+4)$$

factored

$$10 \cdot 3 + 10 \cdot 4$$

Distributed

$$30 + 40 = 70$$

Simplified

Problems

$$\textcircled{a} \quad \begin{array}{c} 12 \\ 3 \cdot 4 + 15 \\ 1st \quad 2nd \quad 2nd \end{array} = \boxed{27}$$

$$\textcircled{b} \quad 3^2 + 4 \cdot 4 - (2+1)^2 = 16$$

Solve for x

$$\textcircled{c} \quad \frac{x}{15} - 4 = 3 \quad \begin{array}{r} x \\ \div 15 \\ -4 \\ =3 \end{array} \quad \begin{array}{r} 3 \\ +4 \\ \hline 7 \\ \cdot 15 \\ \hline 105 \end{array} \quad \textcircled{d} \quad 3x + 16 = 20.5$$

$$x = 1.5$$

$$\textcircled{e} \quad 4 + 5x = 46 \quad \begin{array}{r} x \\ \cdot 5 \\ -4 \\ \hline 46 \\ \div 5 \\ \hline 9.2 \end{array} \quad \textcircled{f} \quad -7 + \frac{x}{6} = 5.5 \quad x = 75$$

Complete the table

$$\begin{array}{r} x \\ \div 6 \\ -7 \\ \hline 5.5 \\ \cdot 6 \\ \hline 75 \end{array}$$

	Factored	Distributed	Simplified
example	$10(4+3)$	$10 \cdot 4 + 10 \cdot 3$	$40 + 30 = 70$
	$3(2+7)$	$3 \cdot 2 + 3 \cdot 7$	$6 + 21 = 27$
	$4(7+8)$	$4 \cdot 7 + 8 \cdot 4$	$28 + 32 = 60$
	$5(5+3)$	$5 \cdot 5 + 5 \cdot 3$	$25 + 15 = 40$
	$2(x-4)$	$2 \cdot x - 2 \cdot 4$	$2x - 8$
	$4(x+2)$	$4 \cdot x + 4 \cdot 2$	$4x + 8$

In your group for 1st time, then for 2nd time

highest - max.

lowest - min

mean - avg.

median - middle when
mode - in order

range - most occurring
- max - min

minus

measures
of
central
tendency

28	10	43	30
25	15	38	40
26	22	18	18
32	26	24	15
23	22	36	34
18	18	19	31
19	21	20	36
14		16	28
17		18	24
20		30	30
20		27	
20		31	
29			
30			
28			

min	10	15
max	32	43
range	22	28
mean	≈ 22	≈ 27
median	22	29
mode	20	18, 30